

I Iodine

at. no. 53, at. wt. 126.91, non-metal, row 6, col. 7A, val. 1-7, orbits 2-8-18-18-7

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Iodine. I; at. wt. 126.91; at. no. 53; valence 1-7. Discovered in 1811 by Courtois. Extracted from Chilean nitrate-bearing earth (caliche) or from seaweed.

Bluish-black scales or plates; metallic luster; characteristic odor; sharp, acrid taste. Its vapor is violet and corrosive. d. 4.93. m. 113.5°, but volatile at ordinary temps. b. 184.4°. Vapor pressure: 0.030 mm. at 0°; 0.131 mm. at 15°; 0.469 mm. at 30°; 2.154 mm. at 50°; 26.78 mm. at 90°. One gram dissolves in 2950 ml. water, 12.5 ml. alcohol, 4 ml. carbon disulfide, 10 ml. benzene, 53 ml. carbon tetrachloride, 80 ml. glycerol; soluble in chloroform, ether, glacial acetic acid, freely in soln. HI or iodides. Solubility in water increased by alkali bromides, but decreased by sodium or potassium nitrate or sulfate. Attacks metals in presence of moisture and slowly acts on organic tissue. Keep tightly closed.

Incompat. Oil: turpentine, starch, tannin, alkalies, alkaloids, metallic salts.

Use: Manuf. iodine compds., germicides, antiseptics; process engraving lithography, photography; an important reagent in anal. chemistry.

Grades available: Reagent, U.S.P., technical.

Med. Use: Skin disinfectant; for hyperthyroidism and simple colloid goiter. Toxicity: Usually amounts of 2 to 3 g. are fatal. Contraindications: Intern. in TB.

Caution: May cause iodism. Dose: Disinfectant: tincture 2% iodine and 2.4% sodium iodide, strong iodine tincture 7 % iodine, 5 % potassium iodide. Hyperthyroidism: Lugol's soln. 5% iodine and 10% potassium iodide.

Vet. Use: As Med. Use. Counterirritant in glandular hypertrophy. Bursal enlargement.

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